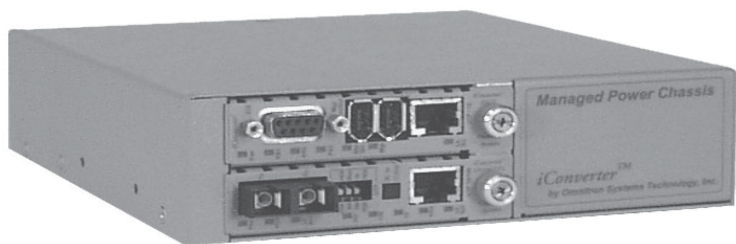


***iConverter™***

***2-Module Managed Power Chassis***

**User's Manual**



### **Warning**

The operating description in this Instruction Manual is for use by qualified personnel only. To avoid electrical shock, do not perform any servicing of this module other than that contained in the operating instructions, unless you are qualified and certified to do so by Omnitron Systems Technology, Inc.

### **Caution**

All user-required operations can be performed without opening the module. Never attempt to open or remove the cover or tamper with the module. There are no user replaceable or serviceable parts in this unit. Equipment is not intended to be installed and used in a place (home, school, or public area) accessible to the general population.

### **Warranty**

This product is warranted to the original purchaser against defects in material and workmanship for a period of TWO YEARS from the date of shipment. A LIFETIME warranty may be obtained by the original purchaser by REGISTERING this product with Omnitron within 90 days from the date of shipment. TO REGISTER, COMPLETE AND MAIL OR FAX THE REGISTRATION PORTION OF THIS INSTRUCTION MANUAL TO THE INDICATED ADDRESS. Or you may register your product on the Internet at <http://www.omnitron-systems.com>. During the warranty period, Omnitron will, at its option, repair or replace a product which is proven to be defective.

For warranty service, the product must be sent to an Omnitron designated facility, at Buyer's expense. Omnitron will pay the shipping charge to return the product to Buyer's designated US address using Omnitron's standard shipping method.

### **Limitation of Warranty**

The foregoing warranty shall not apply to defects resulting from improper or inadequate use and/or maintenance of the equipment by Buyer, Buyer-supplied equipment, Buyer-supplied interfacing, unauthorized modifications or tampering with equipment (including removal of equipment cover by personnel not specifically authorized and certified by Omnitron), or misuse, or operating outside the environmental specification of the product (including but not limited to voltage, ambient temperature, radiation, unusual dust, etc.), or improper site preparation or maintenance. No other warranty is expressed or implied. Omnitron specifically disclaims the implied warranties of merchantability and fitness for any particular purpose.

### **Exclusive Remedies**

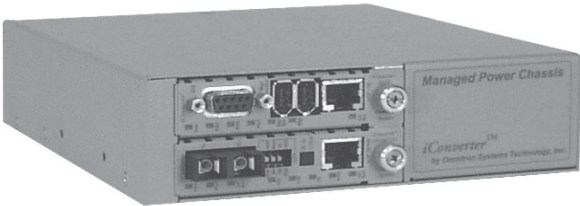
The remedies provided herein are the Buyer's sole and exclusive remedies. Omnitron shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any legal theory.

# *iConverter* 2-Module Managed Power Chassis User's Manual

## GENERAL DESCRIPTION

The *iConverter* 2-Module Managed Power Chassis, which features a single internal universal AC or 48VDC power supply is ideal for enterprise LAN applications and Metro (MAN) networking where remote management and clear demarcation between the service provider's and customer's equipment is important.

The *iConverter* 2-Module Managed Power Chassis supports the entire family of In-Band or Out-of-Band SNMP managed media converters. Supporting 10, 100, 10/100, and Gigabit Ethernet, T1, E1, OC-3 and OC-12 technologies, the *iConverter* family is suitable for LAN and MAN networks where copper to fiber, multimode fiber to single-mode fiber, dual fiber to single-fiber, or copper to coax conversions are required. Additional modules include redundant fiber or UTP, and a 4-port 10/100 switch module.



<i>iConverter</i> Chassis Options		
Configuration	2-Module AC	2-Module DC
Internal Power Supply	8230-0	8235-0
Wall Mounting Hardware Kit	8249-0	8249-0

This User's Manual describes the following models:

## UNPACKING, VISUAL INSPECTION AND INVENTORY

Review contents. The following items should be included:

- ☐ *iConverter* Managed Power Chassis
- ☐ One power cord (AC MODULES ONLY)
- ☐ User's Manual

Inspect equipment and immediately report any damage or discrepancies to Omnitron at (949) 250-6510. If equipment is damaged, do not apply power to the module.

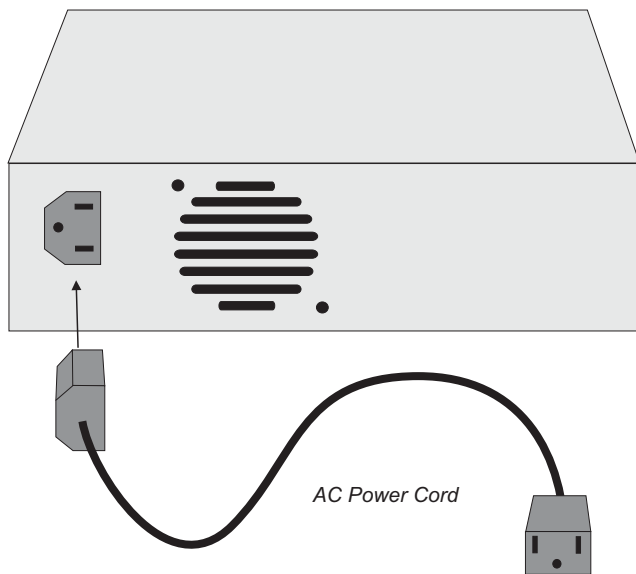
## SITE PREPARATION AND INSTALLATION

### AC Powered Chassis Site Preparation

- ☐ Power source should be available within 5 ft. of the chassis and installed per the National Electrical Code ANSI/NFPA-70.
- ☐ This equipment requires 110-230VAC, 0.5A/0.4A, 50/60Hz power outlet. Appropriate overloading protection should be provided on the AC power source outlets utilized.
- ☐ The operating temperature of this equipment is 0 to 45 degrees C. If installed in a closed or multi-module rack assembly, the operating ambient temperature of the rack must not exceed the maximum rated 45 degrees C.
- ☐ Installation of the equipment should be such that the air flow in the front and back of the module is not compromised or restricted.
- ☐ Never use this equipment to carry any weight except its own. Never use it as a shelf to support the weight of other equipment.

### AC Powered Chassis Mounting

- ☐ If mounting the chassis to a wall, backboard or other flat surface, use the optional *iConverter* Wall Mounting Hardware Kit (Model 8249-0).
- ☐ Plug the supplied power cord into an appropriate AC wall outlet. If any modules are installed, their Power LED should indicate the presence of power.



## DC Powered Chassis Site Preparation

- ☐ Power source should be available within 5 ft. of the chassis. The over current protection for connection with centralized DC shall be provided in the building installation, and shall be a UL listed circuit breaker rated 20A, and installed per the National Electrical Code, ANSI/NFPA-70.
- ☐ This equipment requires 48VDC/1.0 Amps rated power. Appropriate overloading protection should be provided on the DC power source outlets utilized.

**WARNING:** Only a DC power source that complies with safety extra low voltage (SELV) requirements can be connected to the DC-input power supply.

### WARNING REGARDING EARTHING GROUND:

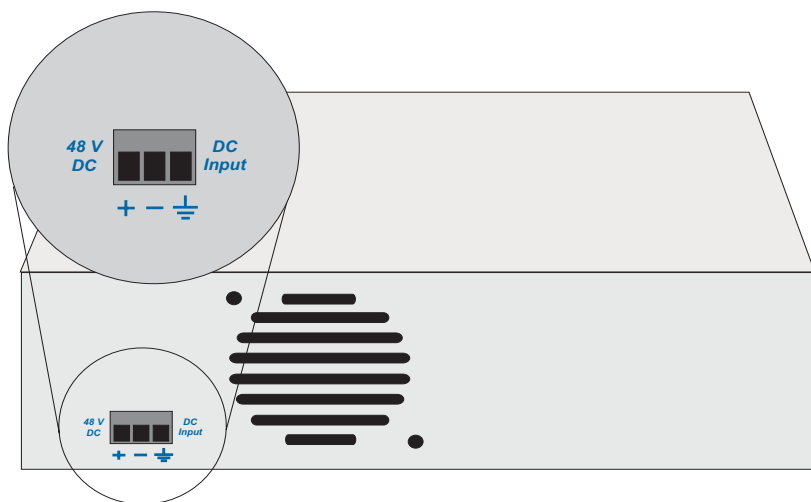
- ☐ This equipment shall be connected to the DC supply system earthing electrode conductor or to a bonding jumper from an earthing terminal bar or bus to which the DC supply system earthing electrode is connected.
  - ☐ This equipment shall be located in the same immediate area (such as adjacent cabinets) as any other equipment that has a connection between the earthed conductor of the same DC supply circuit and the earthing conductor, and also the point of earthing of the DC system. The DC system shall not be earthed elsewhere.
  - ☐ The DC supply source is to be located within the same premises as this equipment.
  - ☐ There shall be no switching or disconnecting devices in the earthed circuit conductor between the DC source and the earthing electrode conductor.
- ☐ The operating temperature of this equipment is 0 to 45 degrees C. If installed in a closed or multi-module rack assembly, the operating ambient temperature of the rack must not exceed the maximum rated 45 degrees C.
  - ☐ Installation of the equipment should be such that the air flow in the front and back of the module is not compromised or restricted.
  - ☐ Never use this equipment to carry any weight except its own. Never use it as a shelf to support weight of other equipment.

## DC Powered Chassis Mounting

- ☐ If mounting the chassis to a wall, backboard or other flat surface, use the optional *iConverter* Wall Mounting Hardware Kit (Model 8249-0).
- ☐ Ensure that the 48VDC circuit breaker can supply 1.0 Amp of current.
- ☐ Locate the 48VDC circuit breaker, and switch the 48VDC circuit breaker to the OFF position.
- ☐ Prepare a power cable using a three conductor insulated wire (not supplied) with a 14 AWG gage minimum. Cut the power cable to the length required.
- ☐ Strip approximately 3/8 of an inch of insulation from the power cable wires.
- ☐ Connect the power cables to the *iConverter* Chassis by fastening the stripped ends to the 48VDC connector.

**WARNING:** Note the wire colors used in making the positive, negative and ground connections. Use the same color assignment for the connection at the circuit breaker.

- Connect the power wires to the circuit breaker and switch the circuit breaker ON. If any modules are installed, their Power LED should indicate the presence of power.



### **WARNING!!!**

**NEVER ATTEMPT TO OPEN THE CHASSIS OR SERVICE THE POWER SUPPLY OR FAN MODULE. OPENING THE CHASSIS MAY CAUSE SERIOUS INJURY OR DEATH. THERE ARE NO USER REPLACEABLE OR SERVICEABLE PARTS IN THIS UNIT.**

**NOTES:**

[illegible]

## SPECIFICATIONS

Model	2-Module AC	2-Module DC
Model Number	8230-0	8235-0
Module Capacity	2	2
Power Supply	Fixed/Internal	Fixed/Internal
Power Requirements	110-230VAC, 0.5A/0.4A, 50/60Hz	+/- 48VDC, 1.0A
Dimensions	W6.7" x D:5.51" x H:1.87"	W6.7" x D:5.51" x H:1.87"
Weight	2.5 lbs	2.5 lbs
Compliance	UL, CE, FCC Class A, NEBS Level 3	UL, CE, FCC Class A, NEBS Level 3
Temperature -Operating -Storage	0 to 45 C -40 to 80 C	0 to 45 C -40 to 80 C
Humidity (non-condensing)	0 - 90%	0 - 90%
Altitude	0 - 10,000 ft.	0 - 10,000 ft.
MTBF (hrs)	350,000	400,000

## TECHNICAL SUPPORT

If you encounter problems while installing this product, contact Omnitron Technical Support:

Phone: (949) 250-6510

Fax: (949) 250-6514

Address: Omnitron Systems Technology, Inc.  
27 Mauchly #201  
Irvine, CA 92618, USA

Email: [support@omnitron-systems.com](mailto:support@omnitron-systems.com)

URL: <http://www.omnitron-systems.com>